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ABSTRACT

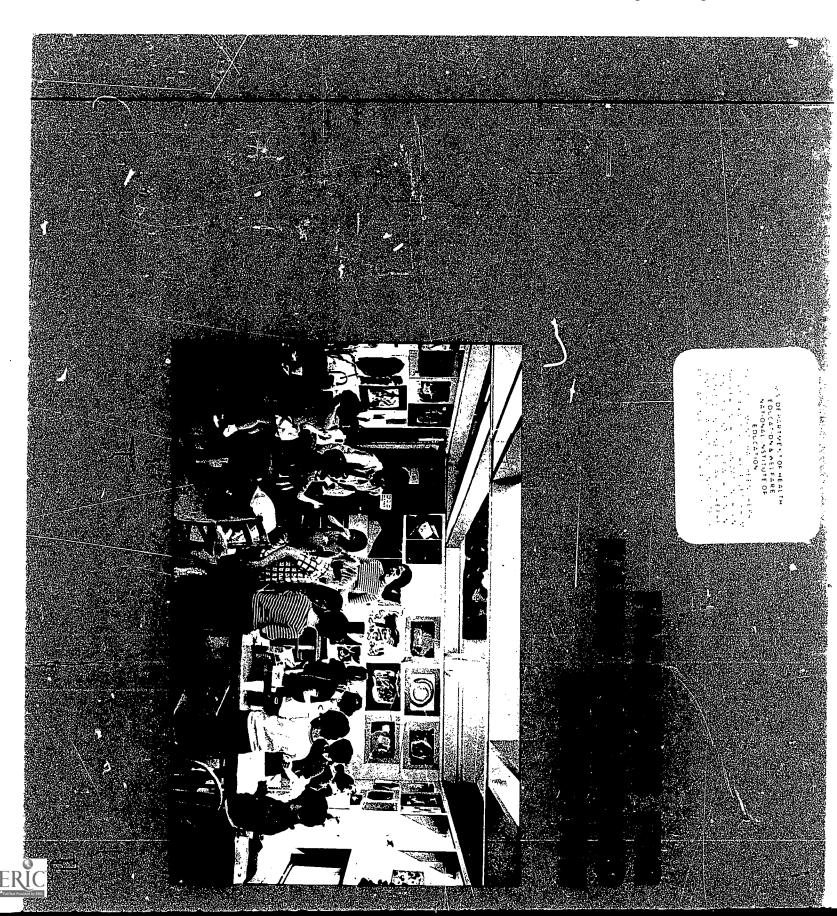
The planning of facilities for early childhood education should be a part of a larger, comprehensive plan for educational services in the community. Early childhood education should not be an uncoordinated appendage tacked on to the existing patterns of education in organization, programing, or staffing. A number of diverse persons and agencies can help in developing the program for early childhood educational services -- teachers, administrators, principals, parents, specialists in early childhood education, representatives of State educational services and institutions of higher learning, and other consultants. Parents should be involved when the program for early childhood education is being developed and formed, or even participate in the early stages of the processes for planning the facilities for early childhood centers. The basic nature and characteristics of young children constitute the prime criteria in planning facilities for early childhood education. The purpose and goal of this publication is to quide and stimulate school officials, architects, and engineers in providing and planning new or renovated facilities which are appropriate for early childhood education. (Photographs may reproduce poorly.) (Author)

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SCHOOL PLANNING GUIDE SERIES / 5

North Carolina Department of Public Instruction / Division of School Planning / Raleigh, N.C.



FOREWORD

As the State of North Carolina enters the era of public kindergartens supported in part with funds from the State's treasury, it is important to the young children that the teachers and the facilities—grounds, buildings and equipment—be of the highest quality obtainable.

Early childhood development and education encompasses the age group from birth to about eight years; kindergarten is a somewhat arbitrary segment of this group--those between five and six years in chronological age. Since children mature at varying rates, it is not reasonable to expect consistent similarities among children of the same age. Kindergarten accepts each child as he is, in whatever stage of development, regardless of chronological age.

Good facilities for early childhood provide an appropriate environment for young growing and developing children to live in and to learn in, under the care, stimulation, leadership and guidance of highly competent, educated and well-trained teachers and assisting personnel who are encouraged and supported by energetic and concerned educational leaders.

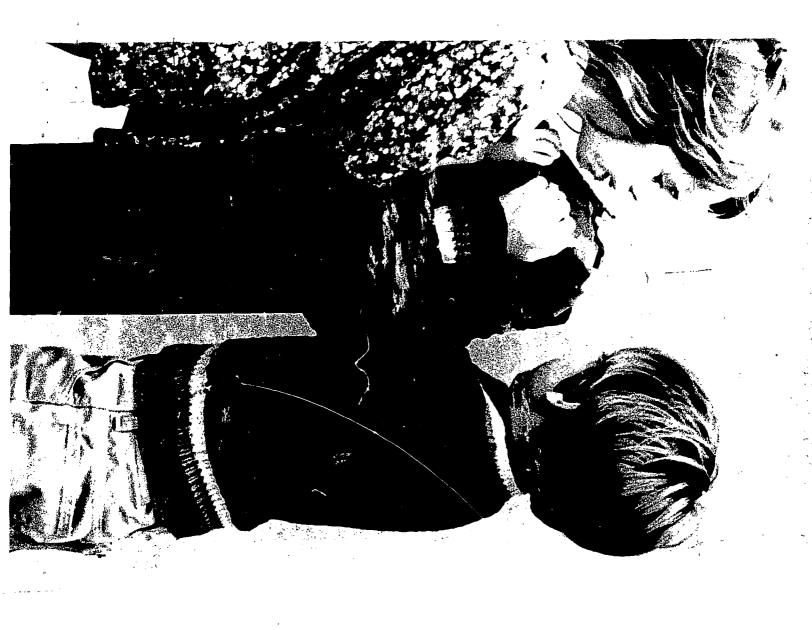
Serial Se

State Superintendent of Public Instruction

A. CRAIG PHILLIPS



School Planning Guide Series—#5
NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION
Division of School Planning
March 1970

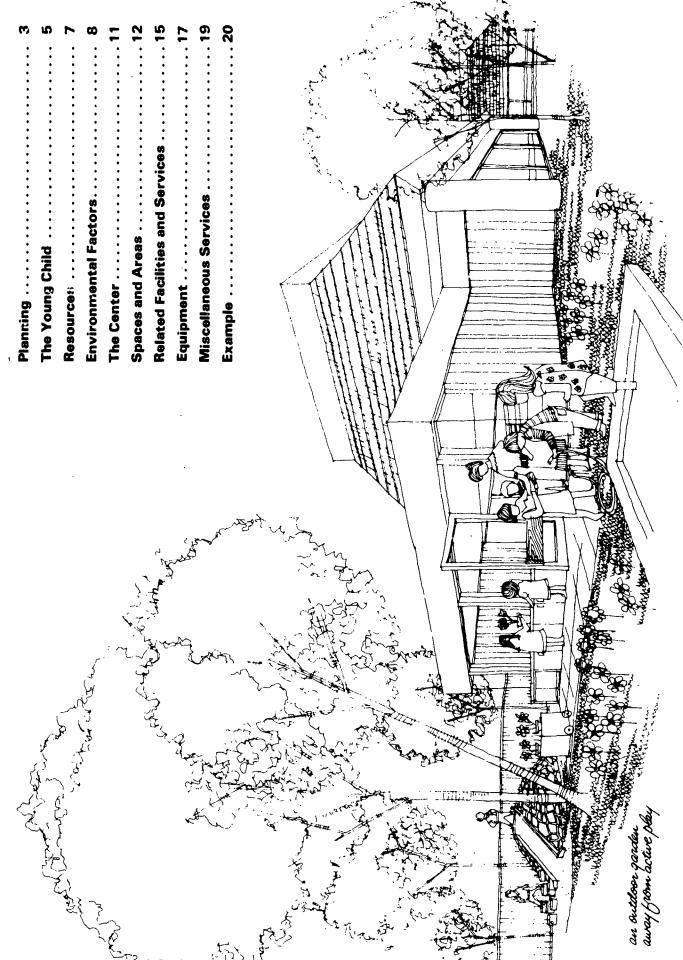


and efforts have made it possible for the Department to prepare of School Planning, has traveled extensively to observe some of this attractive guide for the use of those who will be planning have reviewed a wide range of materials on the subject. His studies the past year Marvin R.A. Johnson, consulting architect, Division include programs for children five years of age, it is essential facilities for the younger children in the years ahead. the best early childhood centers in the country. He and others that an adequate and stimulating environment be provided. During As North Carolina prepares to expand the public school system to

valuable assistance of Mrs. Patricia Bowers, artist, and Mr. Robert contribution to this publication. Appreciation is expressed for the from his efforts and the efforts of the other persons who made a It is hoped that the thousands of young children who will be attending the early childhood centers of the future will benefit Ham, draftsman, who assisted with the graphic arrangement.

Director Division of School Planr J.L. PIERCE

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which are appropriate for early childhood education. and stimulate school officials, architects and engineers in providing and planning new or renovated facilities The purpose and goal of this publication is to guide

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for early childhood education.



Sketches on pages 2, 9, 13, 14 by Ronald Haase, AIA, of New York City, they are used with his permission

Sketches on pages 10, 16, 18, 20 by Robert Ham. Draftsman. Division of School Planning

Photographs by Charles Wright, Photographer, N.C. Department of Public Instruction

there are some kind of set boundaries or a set place where boundaries or a set place where by a child must learn to read or ot mest learn that one and one make two. I think programs to should be designed for the child in and his pace of learning."

I think it's foolish not to

"...! think it's foolish not to realize that young children have a wide range of interests and abilities themselves. There are some 3-year-olds who perform as 5-year-olds; there are some 5-year-olds who perform as 3-year-olds."

-Grace Trueman

strongly that 5-year-olds learn are planned to help children and in all of the Goshen kindercome each year to feel more gartens, we have the kind of most through what is very natideas, and also to accommodate develop concepts, to develop freedom to move about from acprograms where children have Therefore, in my kindergarten and that is their play experience. ural and normal for 5-year-olds, the variety of ages that you ditional experiences that would enlarge their world." children who are ready for adwould find in a kindergarten, both emotionally and chronologically apt to provide for the "In my years of teaching. I

Principal, Scotchtown Avenue School, Goshen, New

York. Mrs. Grace Trueman,

Kindergarten Grade Chair-

Scotchtown Avenue

School, Goshen, New York.

School, Malesley,

chusetts.

E.J. McDermott,

Massa-

garten teacher, Warren Public

Theresa

Dowd,

kinder-

-Grace Trueman

because the calendar changes, or because a child moves from

one room to another; each

teacher who receives a child from kindergarten needs to see the continuity of growing up. the continuity of the learning nature of children, we realize

"I think that by respecting the

that children do not change just

"One of the things that I feel strongly about is that learning does not take place only through

sight and sound. It takes place, especially for the young children, through all the senses.
-E.J. McDermott

"I think that children need a long time to use their many senses; most of the time when people talk about abstract learning, they speak as if feeling, ing. they speak as if feeling, touching were not a part of abstraction—they think in terms of pencil and paper whereas I think a total person can learn abstract thinking by experimenting, by trying out, by making a lot of mistakes and not being afraid to go try it again."

-Theresa Dowd

"Another thing that is very important to me is to give the child opportunities to observe things visit places and have adults really listen when children have something to say. Many chances for sensorimotor experiences should be available."

and are used with their per-

teachers

and

administrators

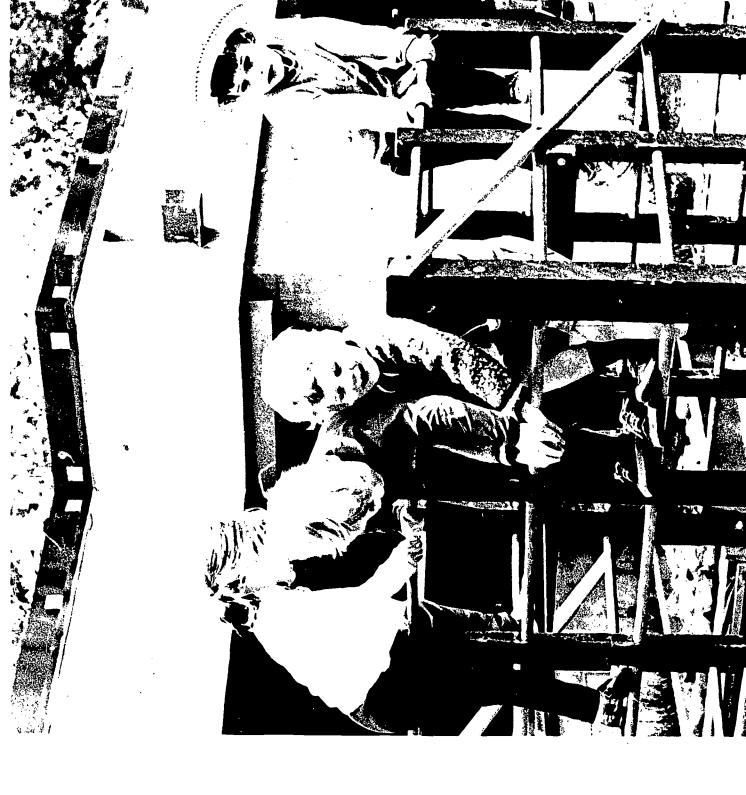
publication are selected from interviews with the following

The statements quoted in this

-E.J. McDermott

a lot of paper stuff, but the gether, the size and shape of strong, how you put things tocan move around to find how kinds of materials that a child own language and a readiness much, how little, how big, how ınto symbols." down this thought-what he meaning of words through his thing that can he translated on the teacher's part to put things, the discovery of knows, what he says—is some "For me, not work books, not the

-Theresa Dowa



I think, are the measurements If the teacher herself has this in her, she can share it with the "There is a great joy in litera-ture, music; all the liberal arts, of good kindergarten programs. children."

-Theresa Dowd

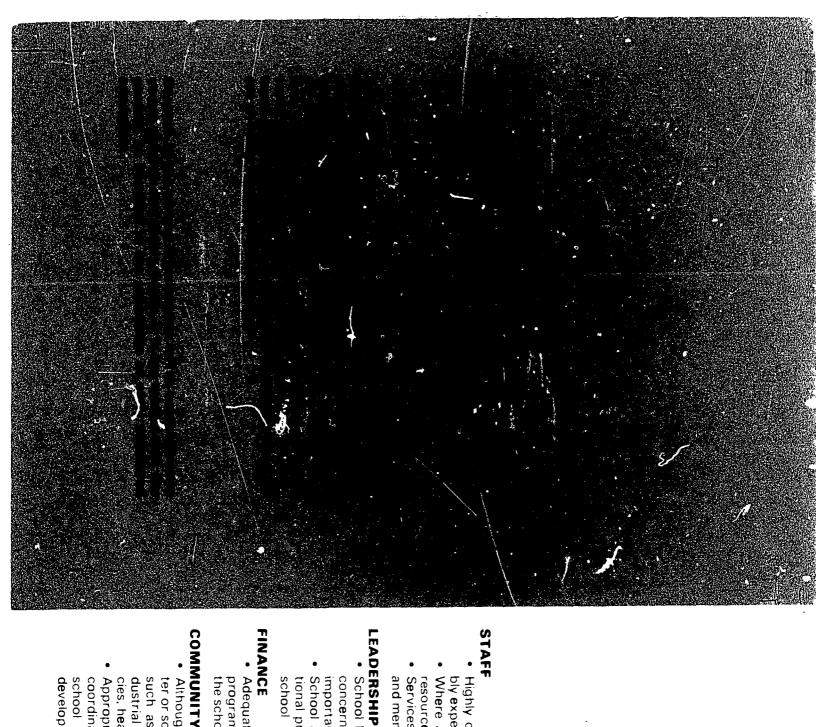
the child, the more we know about the child's home, and the more the child's parents know about our school, the more we "I feel as a principal, and I that the more we know about think I felt this also as a teacher, can do for individual children.

-E.J. McDermott

come in and visit us during the them to let us know in advance out understanding the part of the parent, too. We're really a "We encourage parents to year, and they do this. They may come at any time; we ask so we don't have too many mothers on any one day. They have a very comfortable feeling about the classroom that they may visit as if they're a part of it. can't be a child's teacher with team working together.

really know what we're trying to "Consequently, we have the most wonderful cooperation do and we really know what their expectations and hopes parents because they are for their children." from

-Grace Trueman



STAFF

- bly experienced teachers and assisting personnel Highly competent, well-educated, well-trained, accept-
- Where appropriate and available, adequate additional resource personnel
- Services of competent persons in the fields of physical and mental health and social rehabilitation

tional programs and services as an integral part of the school

School principals who accept early childhood educa-

importance of early childhood education

School boards and administrative leaders who have a

concern for and a knowledge of the significance and

FINANCE Adequate funds distributed equitably to early childhood programs as well as to other services and programs of the school

COMMUNITY-RELATED PROGRAM

- dustrial enterprises, libraries, community service agensuch as parks, cultural facilities, commercial and in-Although based at the early childhood education cencies, health and social services ter or school, utilizes many resources in the community
- school and to improve the understandings of child coordinate the attitudes and experience of home and Appropriately related to home and family in order to development by the parents



EARLY CHILDHOOD EDUCATION



The environmental factors of man's physical surroundings relate to the human senses, and affect the comfort and the effectiveness of the human organism.

Thermal

- Comfortable for children
- acceptable range of 68 to 75 degrees indoors Cooled as well as heated, unless natural conditions · Temperature somewhat variable, not constant, within
 - of climate make this unnecessary
 - Provision for humidity control

Visual

- doors that open; most window sills two feet or less Something to see out-of-doors through windows and from floor
- Lighting which ranges from bright sunlight to darkness through combinations of natural plus artificial illumination, with possibilities for a wide variety of intensity and of mood, possibly with dimmer switches
 - Lighting adequate for close tasks
- In addition towailing illumination, possibilities of walltype and floor-type lighting fixtures
- Careful but bold use of color in building, finishes and equipment

Acoustical

- Comfo.table to allow for natural noises of busy children
 - Some soft floor surfaces to prevent generating unwanted sounds
- Acoustical treatment on valls or ceilings if needed to provide acoustical comfort
 - Possibility of several spaces to allow for some separation of conflicting sounds

Tactile

 Variety of textures in surfaces, finishes, furnishings and equipment

Spatial

- Varied areas, ranging from free open air of the out-ofdoors to enclosed, private, cozy, indoor space
 - Variation is ceiling height and in floor levels; spaces tall, some Icw, some narrow, some wide

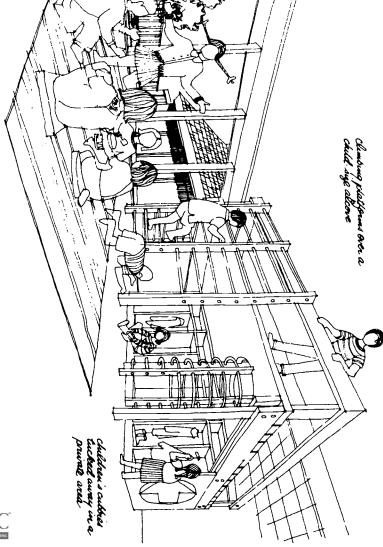
Sanitation

- Agreeably sanitary without antiseptic institutional quality
- of state and local authorities disposal systems which exceed minimum requirements Provided with adequate and safe water supply and waste
- Equipped with appropriate fixtures for waste disposal and cleanliness
- Meeting local sanitation inspection standards

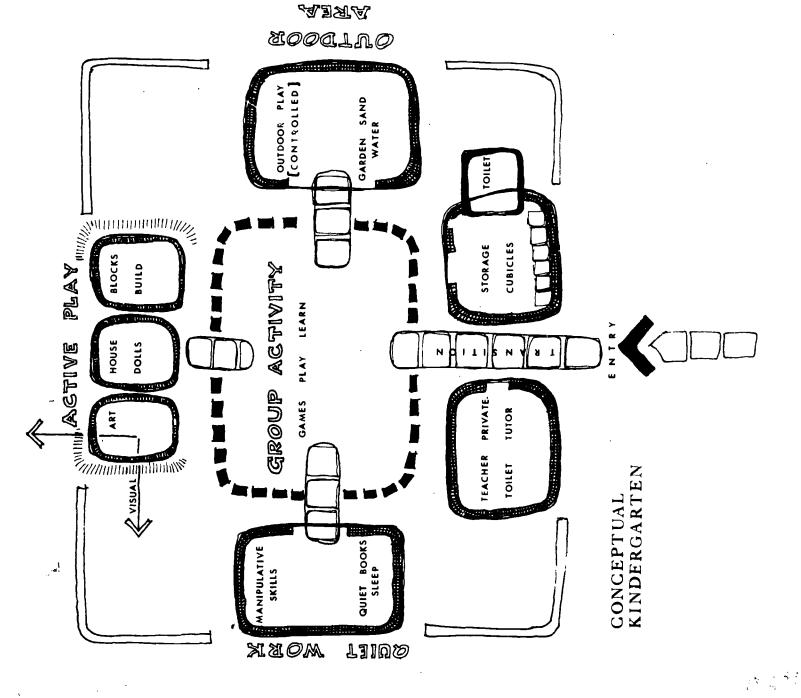
- Free of avoidable hazards
- Provided with adequate skits
- building codes Meets the shirit as well as the letter of State and local
- Possible hazards from motor vehicles reduced to a minimum
- Outdoor equipment and structures of sturdy materials
- Outdoor surfaces of materials which minimize causes of abrasions, cuts, etc., and which are well tended and well maintained

It is essential that facilities for children should be

thorougly safe and sanitary.







for these activities. Out of such a diagram prepared for a specific it shows possible relationships between the various activities and the areas primarily set aside situation might come the basic This is a diagram, not a plan; idea for a building plan.

ARLY CHILDHOOD EDUCATION

Five-year-old children are "pliant": they can adapt them-selves to a great variety of physical circumstances and environmental situations. This characteristic of young children must not he exploited, nor be used as an excuse for merely sheltering them in dull, depressing, crywded, inadequate or plain blandsure, adings and buildings.

THE CENTER

LOCATION

- In an elementary or union school, or in a separate center for early childhood education and development for children of ages 5 through 8
- Reasonably close and convenient to the homes of the pupils, eliminating the need for long travel time in automobile or bus

TRAFFIC

- For walking children, walkways do not cross driveways on school site
- Driveways and parking areas removed and separated by barriers from children's play and activity areas
- A safe waiting area, covered where feasible, for children awaiting transportation at end of school day

CHARACTERISTICS

- Many opportunities for each child to do many things, some of which the home environment does not provide or allow
- Situations which increase a child's awareness of all there is to be done and enjoyed
- A great and rich variety of tools, devices, materials and instruments to provide each child the opportunities to try many activities
- Stimuli for all the senses
- Site with varied topography and plant life
- Partly wild and natural—plants and animals; partly precise and man-made—glass, metal, ceramics
- Accepting child-like clutter, yet also providing pure and ascetic space for those who are easily distracted
- Not bland or dull, but with character and personality
 Versatile and adaptable to change without losing identity

With built-in variety: rugged for active play, yet also

quiet and elegant for rest and gentleness

- Permissive, not inhibiting
- Well-proportioned and appropriately scaled to the child
- Of good quality, not cheap or shoddy





Facilities for early childhood education and development require both indoor and outdoor space which is continuous: indoors and outdoors are closely related, connected to each other by wide doors and windows.

INDOOR

Area

Approximately 1,500 square feet for 20 to 24 students

Activity Centers

s: adjacent to work sink, with counter provided with convenient storage to art materials and supplies located near outside window

ater: special deep sink or basin near other work sink edia: in secluded area

furnished with table and four to six chairs and appropriate shelving with display for books and other media

Other: centers for science, mathematics, music, temporary displays

Surfaces

- Some floor area impervious and easily cleaned especially at work sinks and art center
- Some floor area soft and resilient, such as cushioned tile or carpet
 - Walls with surfaces for display
- Walls of several materials and textures

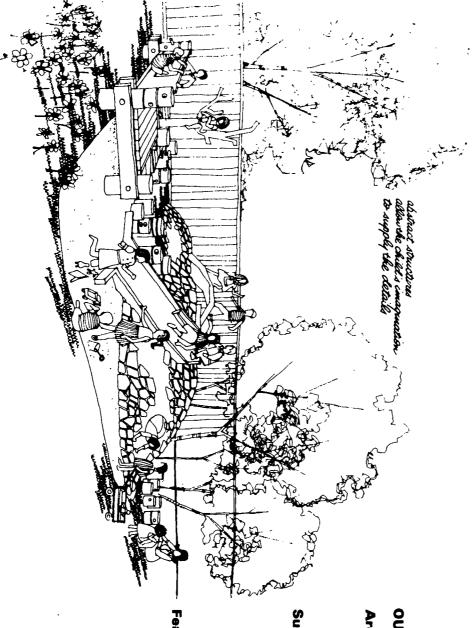
Plumbing

- Work sink(s) with cold and warm water
- Drinking fountain at convenient height entirely separate from work sinks
 - Toilet rooms are part of early childhood rooms; include water closet and lavatory, one fixture of each type for every ten children; accommodations for boys and for girls may be provided separately

Entry

Reasonably direct access to toilets from out-of-doors

Outdoor area for the exclusive use of children in early child-hood center is separated from playgrounds of older children by means of shrubbery or well-designed fence.



OUTDOOR

spaces acceptable if they are well-planned mended to accommodate up to 3 classes; smaller Approximately 15,000 square feet or more recom-

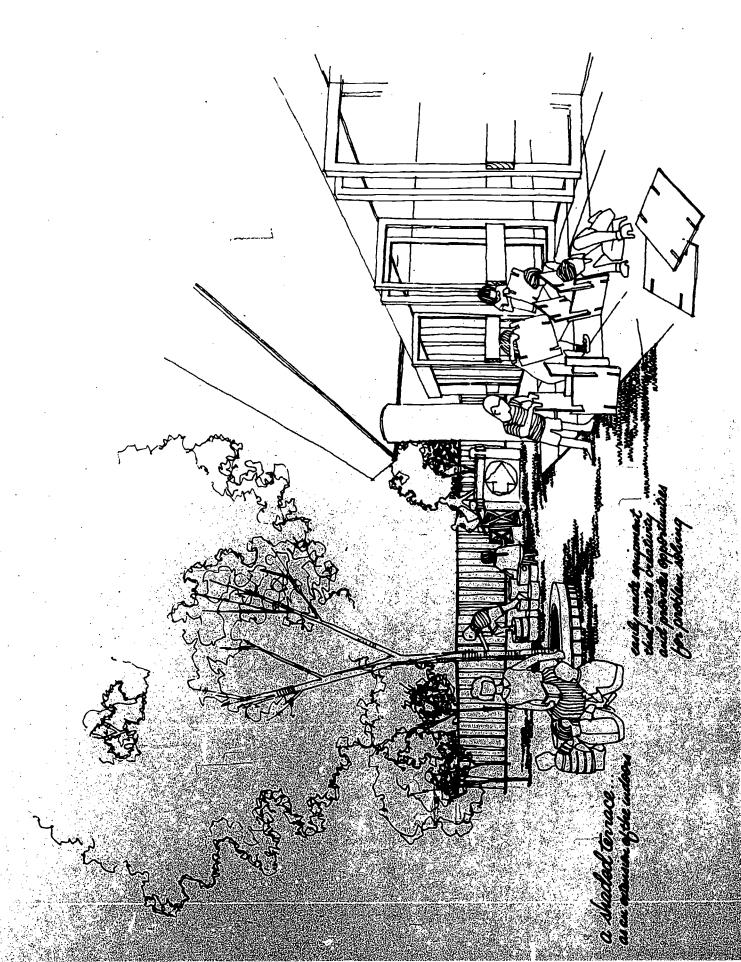
Surfaces:

- Sod or turf for large portion of area
- Uneven and irregular topography desirable for part ot grounds
- Suitably surfaced place for games and small vehicles
- Various textures, such as gravel, sand, pine needles, grass, concrete, asphalt, brick, earth

Features

- Variety of plant life: trees, shrubs, grass, weeds, flowers
- Portion of outdoor area closely related to indoor area
- Large "sculpture" piec s for interest and for climbing
- Climbing and other large muscle exercise apparatus
- Outdoor weatherproof electric outlets Sturdy and durable benches and tables
- Outdoor trost-proof water hydrant
- able, with space for large items such as wagons, tri-Storage room directly accessible from outdoors, lockcycles, large blocks, and other bulky items; wide door for easy access
- Portion of outdoor paved area covered by roof or canopy
- Sandbox, capable of being covered
- Toilet rooms readily accessible from outdoors





services for the children. tent of related accommodations for staff, parents, and special mines in part the nature and exhood education center deter-The location of the early child-

education, special rooms and only a center for early childhood able. In the facility which houses some of the facilities and servequipment will be needed. ices of the school will be availtion is located in a larger school, Where early childhood educa-

a hot lunch program for the chiliences that can take place." children to the cafeteria. We gram and kindergarten, we have there are many learning experthe rooms rather than taking the dren; steam carts are brought to feel that if they are in their rooms, "In addition to the regular pro

TEACHERS & STAFF

- Office space for teacher(s), for records and for small conferences
- Conference room for 8 to 10 persons; this room may of an individual child also be available for temporary isolation or separation
- Toilet rooms for adults—teachers and visitors—with water closet and lavatory

HEALTH & GUIDANCE

- Health room for health inspections, for temporary ease of supervision; used also for visiting personnel services; contains lavatory who provide psychological, psychiatric, or guidance separation of sick child; located adjacent to office for
- Toilet room adjacent
- Shower and bath tub nearby

FOOD SERVICES

- Access to food service facilities where early childhood education is accommodated in a larger school
- Provision of minimum food services determined by daily schedule: hot lunch accommodations if children remain during noon hour
- Provision for snacks at all early childhood education centers: refrigerator and electric hot plate are minimum requirements

PHYSICAL EDUCATION

 Access to indoor physical education facilities if located ın a larger school

REST AREA

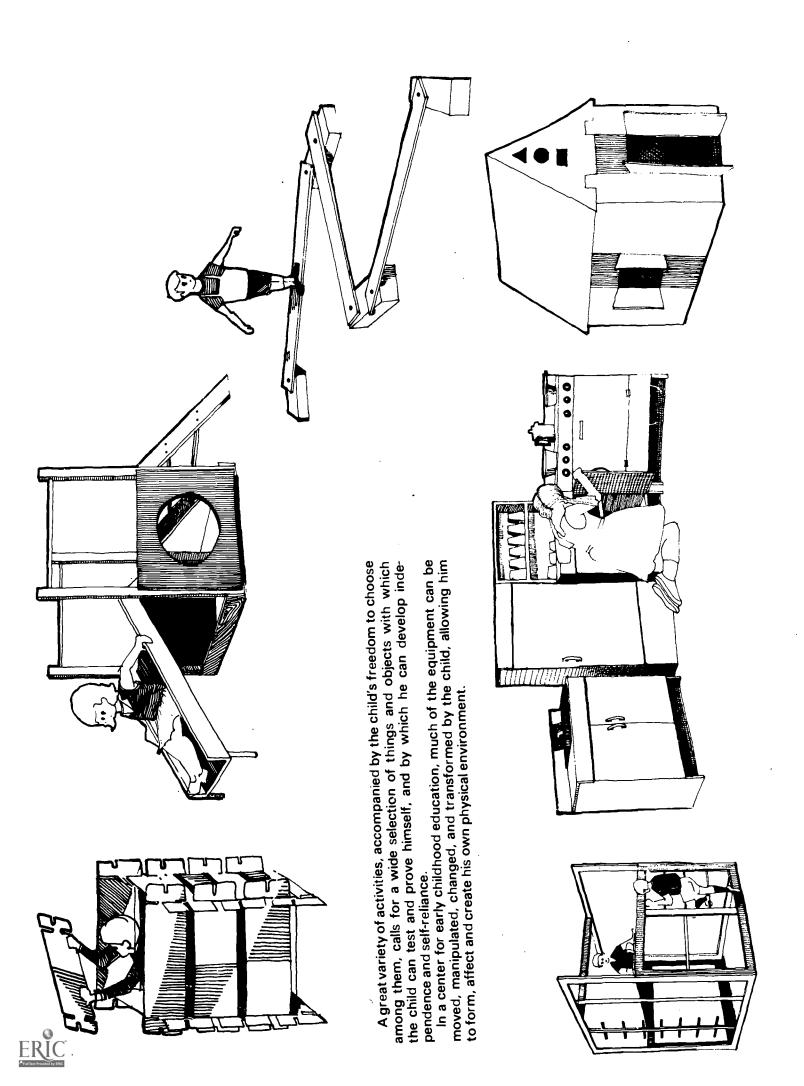
 Especially for full-day programs, space and equipment to permit children to recline for rest period; to save floor space, this may be on two levels

BUILDING OPERATION

Room with service sink or receptor with water, plus storage for equipment and supplies for custodian

-Ed McDermott









TABLES

- Flat-topped, some accommodating two, others three or more children
- Of various sizes and shapes
- Sturdy, yet easily movable

CHAIRS

- Well-designed
- Of appropriate height
- Sturdy, yet easily movable
- Some to accommodate two or more children
- Several for adults

CHALKBOARD

 Approximately ten lineal feet, some of which may extend to top of baseboard

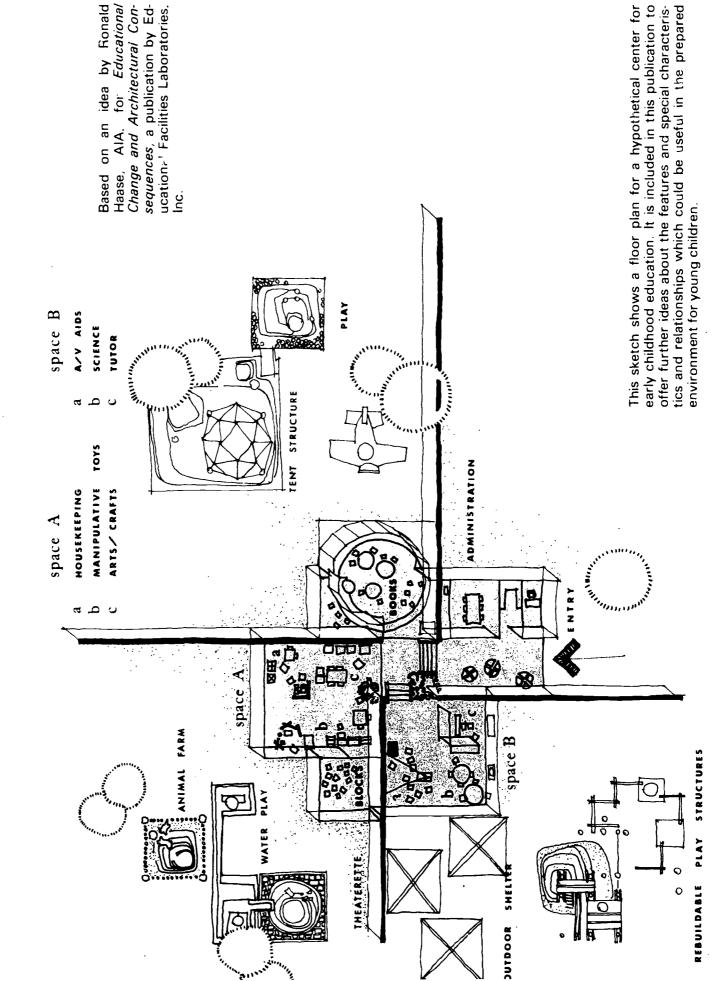
DISPLAY AREAS

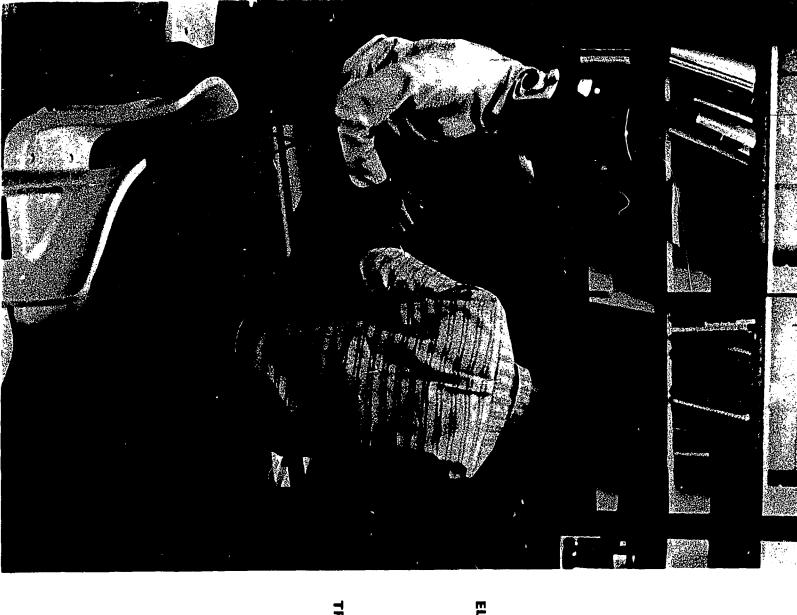
- Wall material or special surfaces on much of the availdimensional exhibit able wall area to allow for display of flat and of three
- Supplementary display rails at several heights above floor
- Hooks or rings in ceiling for hanging displays

CASEWORK

- Abundance of cabinets, shelving and storage compartments:
- Flat plan file for storage of paper, at least 24" × 36"
- Shelving for books and other media
- collections Shelving for small blocks, toys, art supplies,
- Cabinets with adjustable shelves for storage of microscopes, small musical instruments cording discs and tapes, players, recorders, instructional devices such as projectors, re-
- Tops and backs of shelf units and cabinets to be used for displays and exhibits
- Vertical open-front cubicle with shelf and hooks for personal items and clothing of pupils; one unit for each student







ELECTRIC & ELECTRONIC

- Services, circuits and wiring, for the convenient use of electrical devices, indoor and outdoor, including reception and input for television
- Provision for computer terminal
- Intercommunication with other parts of school if early childhood center is part of a larger school
- Telephone service to outside
- Emergency alarm

TRANSPORTATION

- Where school transportation is provided, special attention to comfortable and safe seating for small children
- In large schools, special entrance to building for children in early childhood education

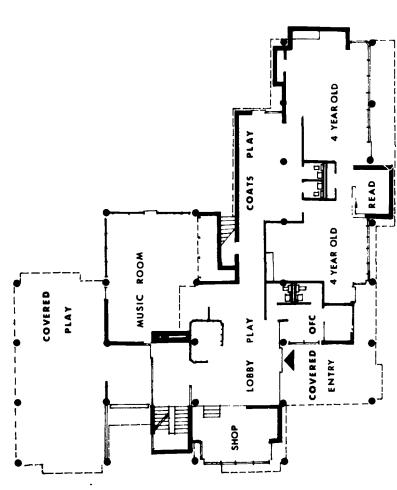
The familiarity of most children with modern communication devices such as audiovisual and television, and the usefulness of these for child development programs, demand that these media be accommodated.

"We don't have a separate bus transportation system, but I would like to have them bussed separately if possible."









The variety of interesting architectural spaces provide It has two floors because it is located on a small site. a superior environment which is not limited to the customary plain rectangular boxes as classrooms which This school accommodates children 4 to 6 years old. are so common in conventional school design. Buckingham Lower School, Cambridge, Massachusetts Ashley, Myer & Associates, Inc., Architects

